

MARKED UP PAGE OF THE SPECIFICATION

SERIAL NO. 10/074,599

Atty Docket No. 29947/93100

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As seen in FIG. 4, the second shoe 80 comprises a block with a top 81, bottom 82, front 83, back 84, and a left and right side 85 and 86. The back 84 of the second shoe 80 is recessed and has raised beads 91 similar to the front of the first shoe 50, so that when the shoes are brought together, they both receive and grip the rope 11. The second shoe 80 is suspended between the upper second shoe guide 140 and lower second shoe guide 142 and is contiguous to horizontal resilient members 120, 121, 122 and 123. The second shoe 80 further comprises a pair of upper and lower guide pins 89, 90, which extend from each lateral side of the shoe 85, 86 and are received in the plurality of Y-shaped slots 92 defined by the side plates 22, 23. The Y-shaped slots 92 are oriented so that one leg of the slot extends horizontally enabling the second shoe 80 to translate horizontally when the lock is opened. The other legs of the Y-slot are inclined, such that when the lock is closed and the rope 11 moves vertically, shoes 50 and 80, which are gripping the rope, move vertically with the rope and the second shoe guide pins 89, 90 in the inclined portion of the Y-shaped slots 92 cause the second shoe 80 to also translate towards the rope 11, gripping it more tightly. The front 83 of the second shoe 80 comprises a plurality of sections 94, 95, 96, 97 (FIG. 4c) inclined from the vertical and substantially parallel to the inclined portions of the Y-shaped slots 92. --In a preferred embodiment, grooves 92 are funnel shaped.--

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As seen in FIG. 4, the second shoe 80 comprises a block with a top 81, bottom 82, front 83, back 84, and a left and right side 85 and 86. The back 84 of the second shoe 80 is recessed and has raised beads 91 similar to the front of the first shoe 50, so that when the shoes are brought together, they both receive and grip the rope 11. The second shoe 80 is suspended between the upper second shoe guide 140 and lower second shoe guide 142 and is contiguous to horizontal resilient members 120, 121, 122 and 123. The second shoe 80 further comprises a pair of upper and lower guide pins 89, 90, which extend from each lateral side of the shoe 85, 86 and are received in the plurality of Y-shaped slots 92 defined by the side plates 22, 23. The Y-shaped slots 92 are oriented so that one leg of the slot extends horizontally enabling the second shoe 80 to translate horizontally when the lock is opened. The other legs of the Y-slot are inclined, such that when the lock is closed and the rope 11 moves vertically, shoes 50 and 80, which are gripping the rope, move vertically with the rope and the second shoe guide pins 89, 90 in the inclined portion of the Y-shaped slots 92 cause the second shoe 80 to also translate towards the rope 11, gripping it more tightly. The front 83 of the second shoe 80 comprises a plurality of sections 94, 95, 96, 97 (FIG. 4c) inclined from the vertical and substantially parallel to the inclined portions of the Y-shaped slots 92. In a preferred embodiment, grooves 92 are funnel shaped.